2023 RCP NETWORK GATHERING



EMBRACING COMPLEXITY THROUGH PARTNERSHIP



Integrated Conservation Strategies for Greater Climate Resilience: A Panel Discussion



Integrated Conservation Strategies for Greater Climate Resilience: A Panel Discussion



David Foster Brian Donahue Mark Wamsley Amy Sheldon Stephanie Cooper

Convener: Marissa Latshaw Moderator: Liz Thompson

2023 RCP NETWORK GATHERING



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David Foster Wildlands Woodlands Farmlands & Communities

BIODIVERSITY AND CLIMATE CHANGE Scientific outcome



Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services

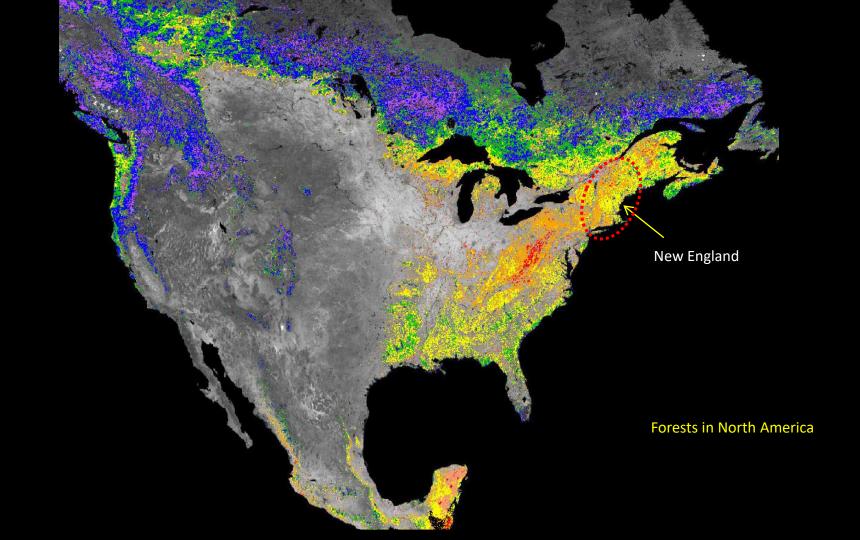
IPCC

Intergovernmental Panel on Climate Change

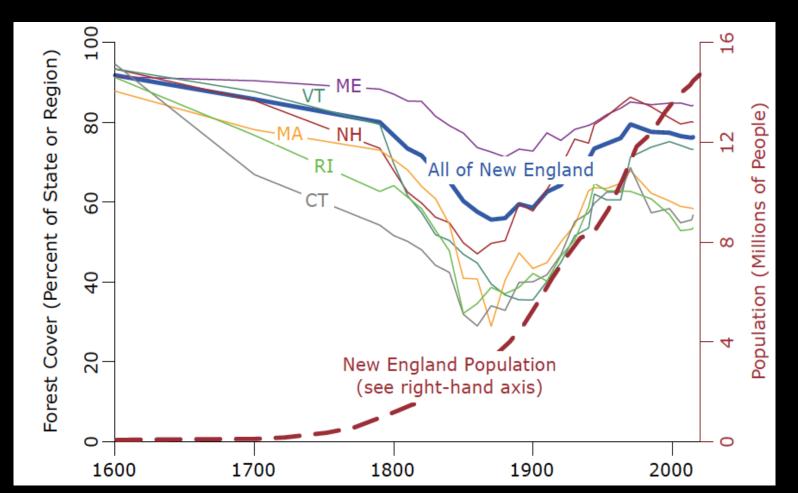
Global Crises – Inextricably linked

Climate Change Biodiversity Loss Human Well-being

Solutions – Necessarily Integrated in Nature

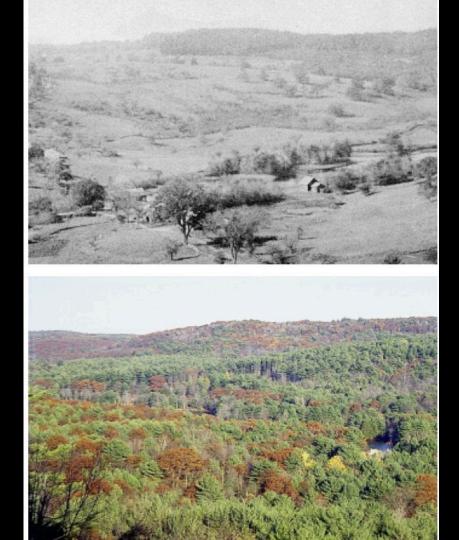


New England – "A Great Environmental Story"



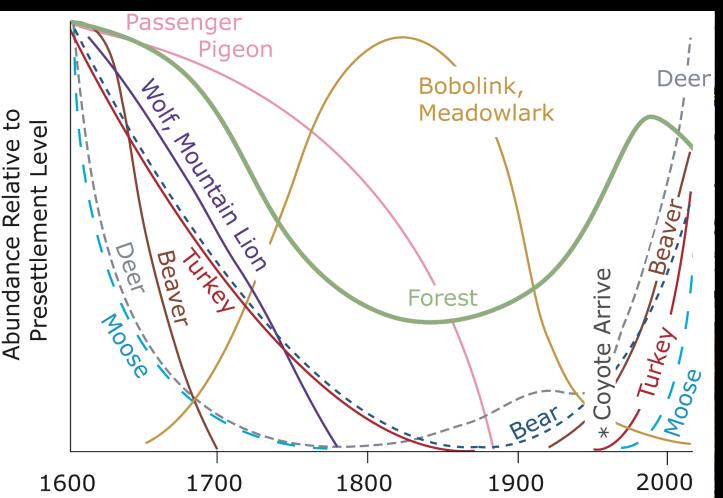


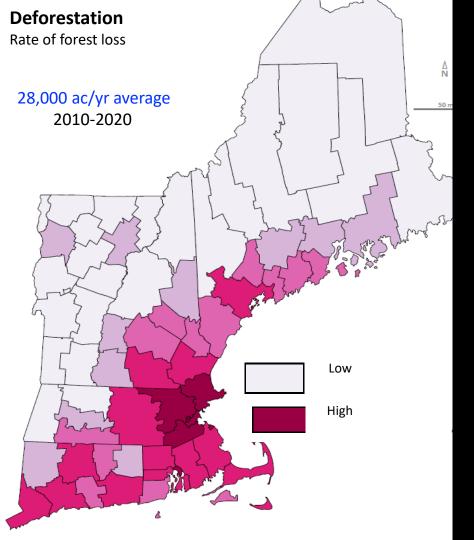
Petersham, Massachusetts



Today

Wildlife Dynamics in the New England Landscape



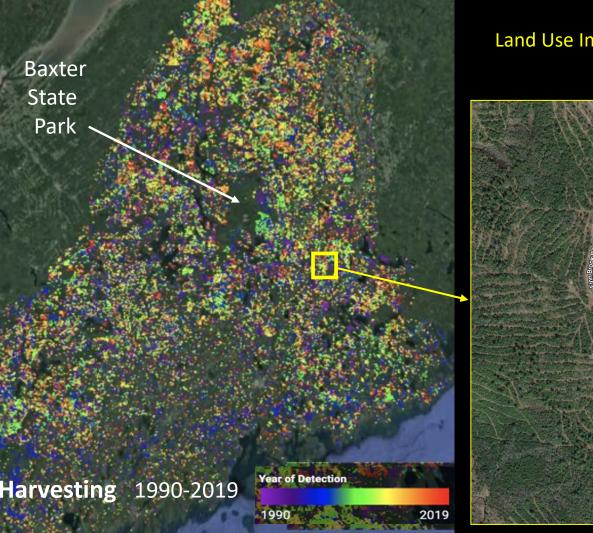


Harvesting Projected Biomass Removal by 2060 A South States for low read AGC_R kg m⁻² 16 14 12 9 7 5 2 0









Land Use Impacts Cause and Exceed Climate Change





Wildlands and Woodlands

A Vision for the New England Landscape



2010

A New England Food Vision



Healthy Food for All
 Sustainable Farming and Fishing

Thriving Communities

2014

Wildlands and Woodlands



Farmlands and Communities

Broadening the Vision for New England



Wildlands Woodlands Farmlands

Communities



Wildlands and Woodlands Vision

		Star WW&F			&F Vision mplished
100%	Water and Wetlands	s 5%			5%
	Developed Land	9%			11%
80%	Farmland	7%			
			and the second se		7-14% 0-7%
60%					
	Unprotected Forest	59%			
40%					63%
20%			Wood	dlands	
	Protected Forest	18%			
0%	2%		Wild	lands	7%
	1960	2000	2020	2040	2060 -

what can we do better together as a region than separately as states and communities? 2023 RCP NETWORK GATHERING



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Brian Donahue New England Food Vision

A New England Food Vision



Healthy Food for All
Sustainable Farming and Fishing
Thriving Communities







EXECUTIVE SUMMARY

A REGIONAL APPROACH TO FOOD SYSTEM RESILIENCE

MAY 2023



















New Supporting Partners



Bonita Oehlke



AGENCY OF AGRICULTURE, FOOD & MARKETS

Abbey Willard



Joshua Marshall



Michelle Webb



Julianne Stelmaszyk



Cyrena Thibodeau



16 Researchers

- Brian Donahue, PhD formerly at Brandeis University; Dietary Patterns Team Lead
- Christian Peters, PhD USDA Agricultural Research Service's Food Systems Research Unit; Production Team Lead
- Nicolas Rockler Kavet, Rockler and Associates; Economic Impact Lead
- Holly Fowler, MBA Northbound Ventures Consulting, LLC; Market Channel Team Lead
- Dr. Sarah Amin, PhD University of Rhode Island
- Laura Barley formerly at American Farmland Trust
- Ramón Borges-Méndez, PhD Clark University
- Michelle Klieger, MBA Helianth Partners, LLC
- Hannah Leighton Farm to Institution New England
- Ashley McCarthy University of Vermont
- April McIlwaine University of Vermont
- Scott Richardson, PhD, MBA Northbound Ventures Consulting, LLC
- Scott Sawyer, PhD Project Editor, Researcher and Designer
- Sarah Schumann Shining Sea Fisheries Consulting
- Dr. Joshua Stoll, PhD University of Maine
- Dr. Eric von Wettberg, PhD University of Vermont



By 2030, 30% of the food consumed in New England is produced/harvested/caught within New England.

Our collective effort will focus on expanding and fortifying the region's food supply and distribution systems in an equitable and inclusive way that ensures the availability of adequate, affordable, socially and culturally appropriate products under a variety of rapidly changing climate, environmental, and public health conditions.







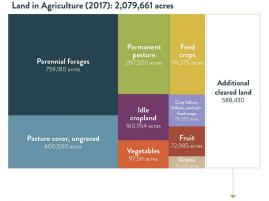
ESTIMATING PRODUCTION FOR 30% REGIONAL SELF-RELIANCE

MAY 2023



Additional Land Needed in Agricultural Production to Achieve 30% RSR

To achieve 30% regional production available for consumption (in servings), **400,000** in <u>existing</u> underutilized cropland and **590,000** in <u>new</u> cropland would need to be brought into production.



Estimated Agricultural Land Required for 30% RSR: 2,668,092 acres





2023 RCP NETWORK GATHERING



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Mark Wamsley Kestrel Land Trust

Integration in Practice

Mark Wamsley Conservation Director



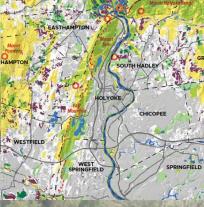




Imagine parks and trails close to everyone's home.

Kids are analous about the world these days. Being glued to their screams doesn't help. But having a place where they can explore nature can provide an escape when they really need it.





GRANBY





Overview

The Berkshire Wildlife Linkage encompasses the Berkshire Plateau and Taconic Ridge in Massachusetts and extends north to the Green Mountains in Vermont, and south and west through Connecticut and New York to the Hudson Highlands. It serves as a critical corridor to the Central Appalachians, freeding into lands of the Central to Northern Appalachians. Connector in New York, New Jersey, and Pennsyvania.

The Berkshire Wildlife Linkage includes the most intact forest ecosystems in southern New England and some of its highest carbon stocks. While ownership patterns are fragmented, there are still abundant parcels greater than 100 acres (many above 200 acres) representing important and time-sensitive land protection opportunities. Intergenerational transfer of land has been important and will continue.

The geography is dominated by non-industrial private forest landowners, complemented by significant stateowned lands and some municipal, non-profit and federal holdings. Many state properties exceed 5,000 acres, with some greater than 10,000 acres, and in some towns, more than 40% of the land is owned by the state.

The economy in this landscape is largely tourism-and recreation-based, with a small and diminishing forest products industry. Many towns have small populations and are struggling financially. Exceptions are in the Southern Berkhines, where there is a more

Conservation actions include

diverse economy based on second home development. While land values have been as low as \$1,500/acre, a COVID-19-influenced population influx is likely to change this.



Collaboration with the transportation sector to lessen the impacts of roads that fragment the

The Friends of Conte

A regional conservation partnership of more than 70 public and private organizations whose collective efforts forge mutually beneficial partnerships and strengthen the health of the Connecticut River watershed and the communities that live in and are served by it.

Connect the CONNECTICUT

A roadmap for conserving the Connecticut River watershed for future generations





Bard and Market Ma













Min David M Ada No

Natural Resource & Climate Data Large Scale Resiliency Plans & Initiatives

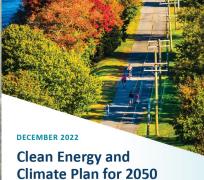
LAND PROJECTS

Community Conservation & Local Resiliency Needs

KESTREL LAND TRUST









Resiliency Plans, Programs & Initiatives

Wildlands Woodlands Farmlands & Communities



75 actions to improve resilience of state asset

30 actions t

\$ 3 \$

actions to protect and enhance biodiversity

127

state agency

actions*

2023 MASSACHUSETTS STATE HAZARD MITIGATION AND CLIMATE ADAPTATION PLAN

EXECUTIVE SUMMARY | September 2023





MASSACHUSETTS

FARMLAND ACTION PLAN

2023-2050

Department Institute



From the Ground Up

About

Conversations about conservation, climate, and communities in New England.

RELEASED!

The Massachusetts Healthy Soils Action Plan

Mountain Waters Landscape Partnership Project

Southampton, Westhampton, Montgomery, MA: Landscape Scale-Habitat Connectivity/Drinking Water/Carbon

PROJECT PARTNERS

Mass Audubon

Mass Dept. of Agricultural Resources (MDAR)

Town of Southampton

Holyoke Water Works

Partner Roles:

Participating partners must be willing to hold a future interest in a participating property. Land can be held in fee, or partners may hold a CR, WPR, or APR as appropriate. Partners can also protect a currently held fee interest under Article 97 if it has not vet been.

Grant funding can be directed towards any eligible partner's acquisition costs, the 50% match can come from partners, in-kind donations, and bargain sales.

OVERVIEW

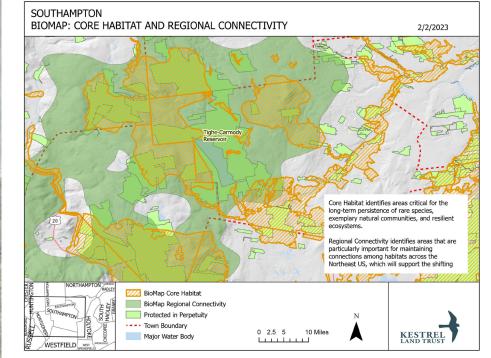
The Mountain Waters project will permanently protect 1,025 acres of wild and working land that exemplifies every goal of the Landscape Partnership Program. In a region notable for its ecological integrity and climate resilience, the project is named both for the prominent landmark. Pomeroy Mountain, as well the waters that flow through its surrounding, vast swaths of forest. Those waters feed important waterways such as the Mahan and Connecticut Rivers and provide clean drinking water to multiple urban and rural communities as they replenish the Tighe-Carmody Reservoir and Barnes Aquifer.

The project is a result of a multi-year year effort amongst conservation partners, led by the Southampton Open Space Committee and Kestrel Land Trust, which have worked to foster a culture of conservation in the community and build trusting positive, and productive relationships with local landowners. The project area is a high priority for conservation by the Town of Southampton's Master Plan and Open Space and Recreation Plan, the City of Holyoke's VMater Resource Protection Plan, Berkshire VVIIdlife Linkage. Regional Conservation Partnership, and all area land trusts. The land to be protected is 2/3rds BioMap Core Habitat and is almost entirely comprised of BioMap Critical Natural Landscape. It rates well above average for dimate resilience, is Identified as a key area for landscape connectivity, and is comprised of a considerable number of intact core forest blocks. Permanent protection of this land will formally open a large area to passive recreation while in other areas, preserving surface drinking water supply and prime farmland soils.

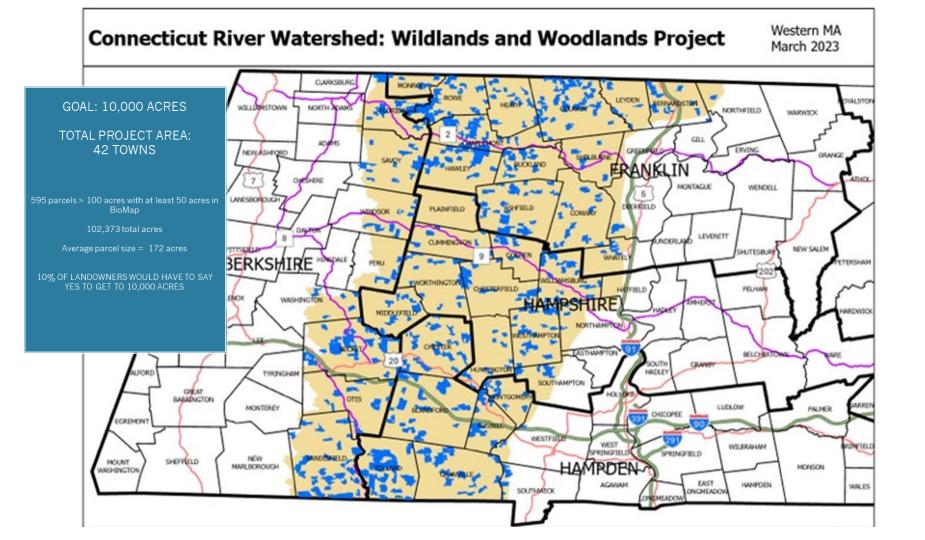
Funding: The State Landscape Partnership grant can award up to 1.25 million as a reimbursement, a 50% match is required.

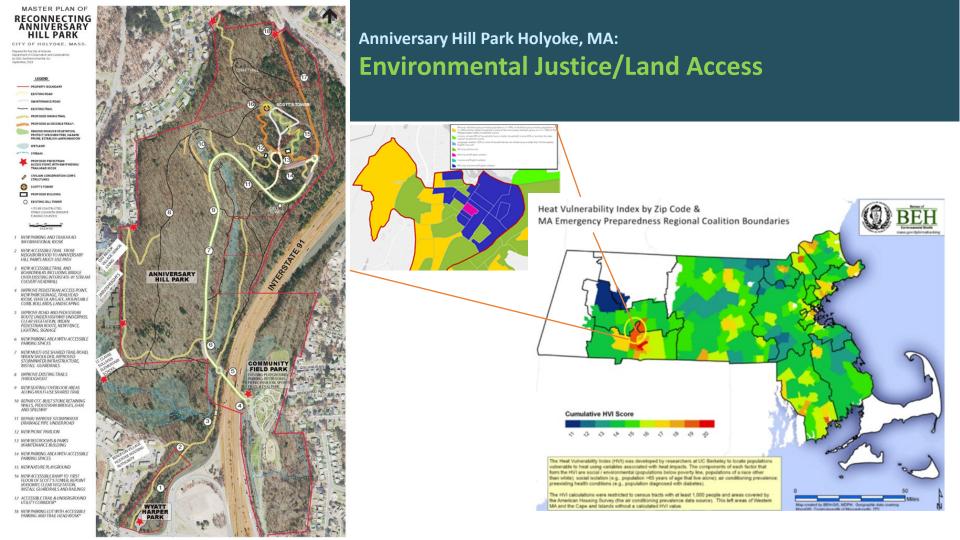
Timeline: The first project can take place over the course of 2 years. Multiple phases of this project are possible.

> Application Deadline: April 18th, 2023 Anticipated Grant Award: July 2023 Grant Contract Period: July 2023 – June 30th 2025



Data provided by MassGIS and/or local municipalities. Data are approximate and provided without warranty or liability. This map is not a survey.





Amherst, Agawam, Northampton, and West Springfield, MA: Food Security/Land Access

1

Farm





Easthampton, MA: Land Access/Affordable Housing



Integration in RCP's

- Where Does Your Region Fit Within Natural Resource Data and Resiliency Plans?
- What New RCP Partners Could Resiliency Encompass?
- Can New Perspectives Bring New Funding?

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Amy Sheldon Vermont House of Representatives

State Policies That Support Climate Resilience



Amy Sheldon, Conservation Planner, Landslide LLC

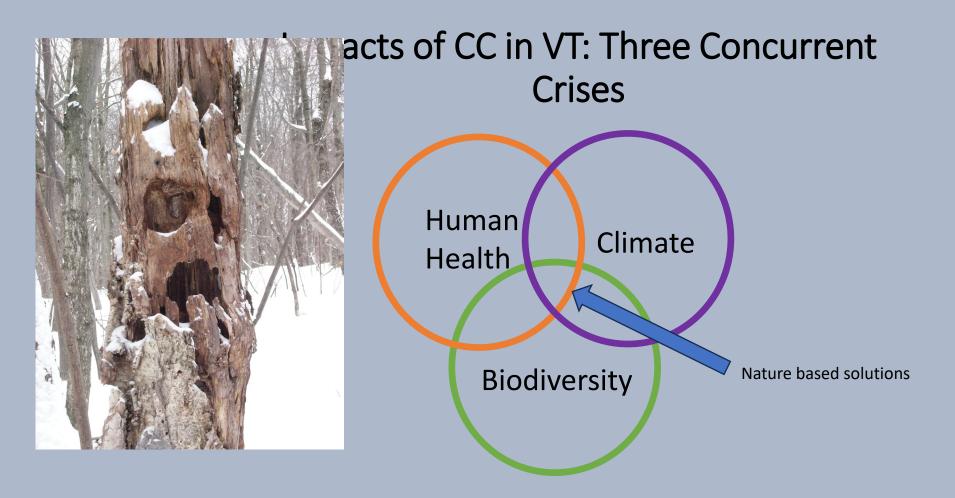
State Representative, Chair Environment and Energy Committee

Landslideuc

Legislative Branch of Government



- Policy change drivers
- House Environment and Energy Committee area of jurisdiction: conservation and development, climate change mitigation, land resources, air, water, and wildlife, and solid waste management; energy utilities, telecommunications, and broadband; and other similar policies.



Integrated Approach



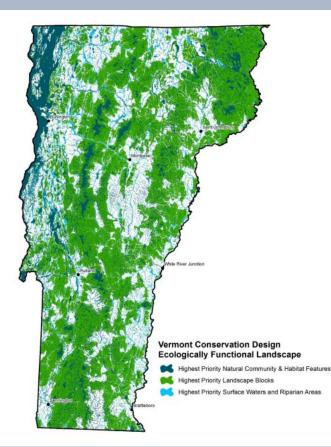
- Focuses resources (time, energy, money) on mutually beneficial outcomes and prevents myopic thinking from one solution exacerbating another crisis.
- In practice, it means holding the *vision* for a functioning landscape (biodiversity thriving) front and center as we take *action* to address the human health crisis and the climate crisis.

If we integrate nature back into our daily life, we can address all three challenges.

Strategies for Legislative Process

- Set the table with science
- Trust the process by being honest, open and inclusive
- Maintain the long view
- State, regional and local planning is key to addressing challenges

Built on Existing Policy and Work of Partners



- Vermont Housing and Conservation Board working on both housing and conservation for over 35 years.
- Vermont Conservation Design uses science to identify landscape features necessary to support 80% of Vermont's species.

Continuum of Recent Biodiversity Policy



- 2016 Require towns and regional planning commissions to map forest blocks and habitat connectors
- 2022 Changes to UVA allow old forests
- 2022 Wanton Waste
- 2023 Community Resilience and Biodiversity Protection Act – creates a vision for Vermont, establishes goals for biodiversity protection of conserving 30% of land and water by 2030 and 50% by 2050
- 2024 update statewide land use policies that support community resilience and biodiversity protection.

Community Resilience and Biodiversity Protection Act (Act 59 of 2023)

- Creates a vision for Vermont
- Defines conservation with a focus on *biodiversity*
- Codifies the goals of conserving 30% of lands and waters by 2030 and 50% by 2050
- Emphasizes the need for *strategic* investments and the need for further policy changes to support meeting the goals



Nature Wants to Partner: How Can RCPs Help?



- Get the message out that human community resilience is dependent on intact, functioning ecosystems
- Accept the need for adaptive management
- In VT help implement; other states help pass needed statutory changes
- Think creatively about new tools for landscape conservation
- Be bold all of us are ready for more

2023 RCP NETWORK GATHERING



EMBRACING COMPLEXITY THROUGH PARTNERSHIP



Stephanie Cooper Massachusetts Undersecretary for Environment



Integrated Conservation Strategies for Greater Climate Resilience Stephanie Cooper Undersecretary for Environment MA Executive Office of Energy and Environmental Affairs



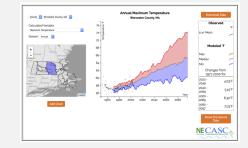
Stephanie.Cooper3@mass.gov



Resilience: "The ability to prepare for, recover from, and adapt to climate change and associated impacts." (ResilientMass Plan, 2023)

What Can Government Bring?

- Information: Develop plans, support planning, create data tools and share information
- Funding: Incentivize approaches, actions and partnerships through funding, and requirements for funding
- Policy and Regulation: Advance policies approaches and create / modify regulations to require action







Example: Planning and Data





Example: Incentivized Funding, Municipal Vulnerability Program



Cross-cutting grants program that fosters innovative partnerships

- Community Planning
- Risk Assessment
- Bylaw Development
- Infrastructure Retrofits
- Nature-Based Solutions to mitigate flooding and heat impacts
- Habitat Protect and Restoration

Rocky Hill Greenways: Restoring Pine Grove Golf Course through removing drainage infrastructure, restoring wetlands, and reforestation



Northampton FY20



AWARD PROJECT TYPE

CORE PRINCIPLES DEMONSTRATED

DESCRIPTION



\$225,000 Nature-Based Solutions

Nature-based solutions, Pursuing innovative, transferable approaches

Part of the Rocky Hill Greenway

Restoring wetlands and historic hydrology

Reforesting the golf course

Protecting additional land

Planning for long term full site restoration







Example: Incentivized Funding Landscape Partnership Program



Goals:

- Protect large-scale landscapes
- Foster partnerships
- Adapt to climate change

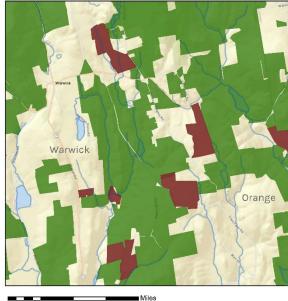
Criteria:

- Size Biodiversity
- Connectivity Water resources
- Working lands Recreation
- Stewardship capacity
- Climate change resilience

Revised sliding scale to expand eligibility

Example: Incentivized Funding Landscape Partnership Program

Properties Proposed for Protection 📰 Protected Land —

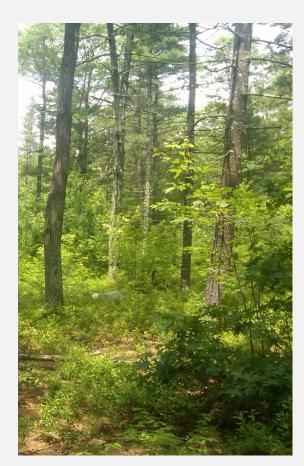


0 0.25 0.5 1 1.5 2

Greater Gales Brook project

- Mount Grace Land Trust
- Mass Audubon
- Town of Warwick
- Protect more than 700 acres and included the establishment of a new Town Forest for Warwick.

Forests as Climate Solutions



Keep Forests as Forests

- Protect 40% of the Commonwealth by 2050
- Expand protection, management & restoration of Natural and Working Lands & their capacity to remove/store carbon
- Incent sustainable forest management
 practices and use of local wood products

\$40 Million Investment

- Expand landowner incentive programs
- Accelerate investment in forest conservation
- Enhance & expand a network of forest reserves
- Develop forest management guidelines based on the latest climate science
- Implement Resilient Lands Initiative

Opportunities for Collaboration



Biodiversity Goals

Resiliency Initiatives

Holistic Land Use Planning

Resilient Lands Coalition

Land & Forest Programs

Federal Funding

.....and more!

Questions?

